

FIG.1

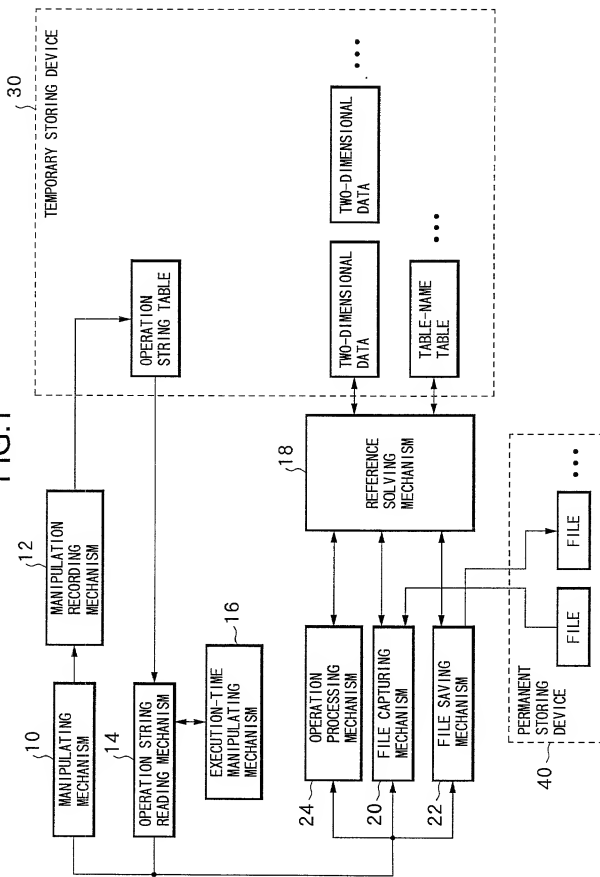


FIG.2

FILE CAPTURING
FILE SAVING
SIMPLE HORIZONTAL COMBINATION
KEYED HORIZONTAL COMBINATION
SIMPLE VERTICAL COMBINATION
KEYED VERTICAL COMBINATION
SIMPLE DIFFERENCE
KEYED DIFFERENCE
SIMPLE TOTALIZATION
KEYED TOTALIZATION
NUMBER-DESIGNATED ROW EXTRACTION
VALUE-DESIGNATED ROW EXTRACTION
CONDITION-DESIGNATED ROW EXTRACTION
DATA-DESIGNATED ROW EXTRACTION
SIMPLE HORIZONTAL-VERTICAL EXCHANGE
COLUMN-TO-ROW CONVERSION
ROW-TO-COLUMN CONVERSION
CLASSIFICATION
SIMPLE VALUE FILLING
VACANT DATA-VALUE FILLING
SAME-VALUE DEGENERATION
SAME-VALUE EXPANSION
REPETITIVE DEGENERATION
REPETITIVE EXPANSION
EXECUTION

FIG.3

A	A1	A2
C	C1	C2
B	B1	B2

A	A3	A4
B	B3	B4
D	D3	D4
E	E3	E4

SIMPLE  
HORIZONTAL  
COMBINATION



A	A1	A2	A	A3	A4
C	C1	C2	B	B3	B4
B	B1	B2	D	D3	D4
			E	E3	E4

FIG.4

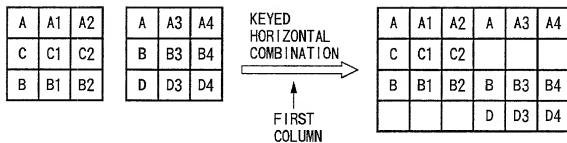


FIG.5

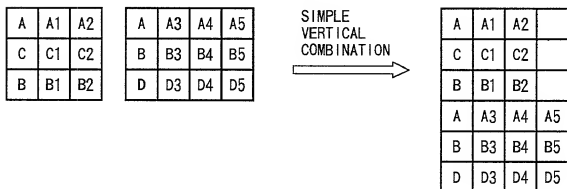


FIG.6

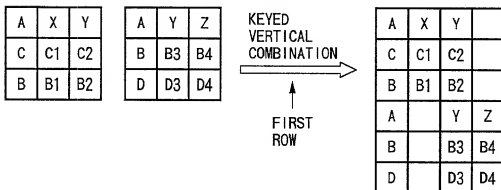


FIG.7

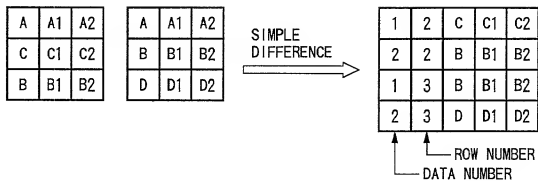


FIG.8

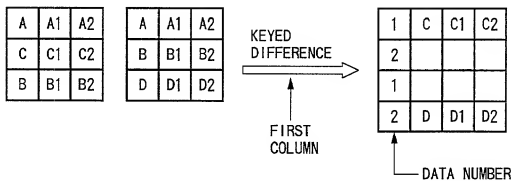


FIG.9

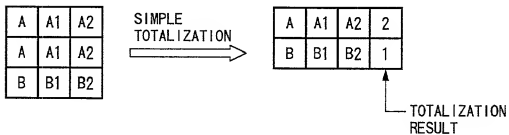


FIG.10

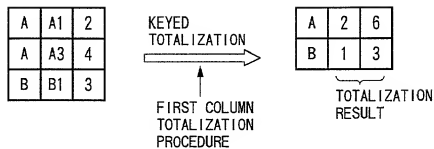


FIG.11

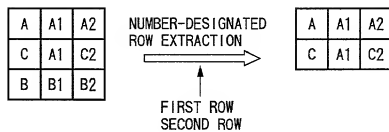


FIG.12

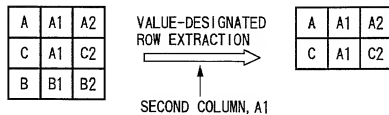


FIG.13

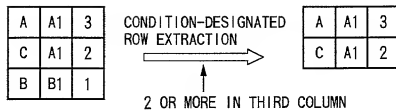


FIG.14

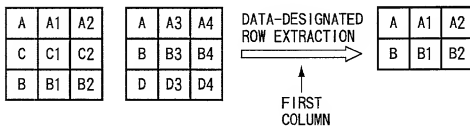


FIG.15

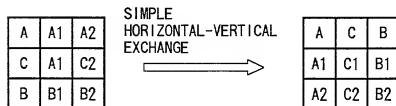


FIG.16

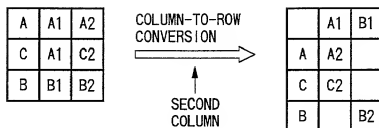


FIG.17

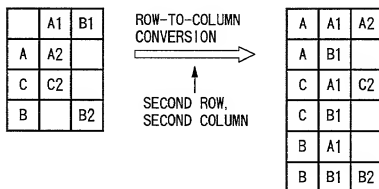


FIG.18

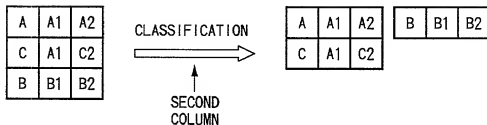


FIG.19

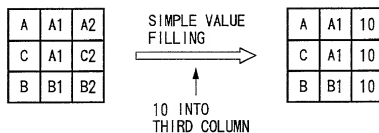


FIG.20

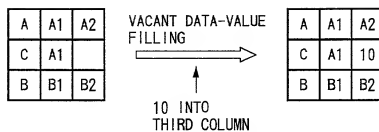


FIG.21

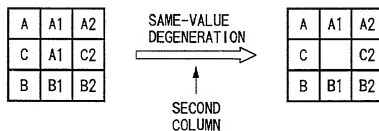




FIG.22

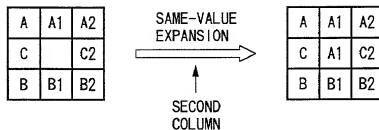


FIG.23

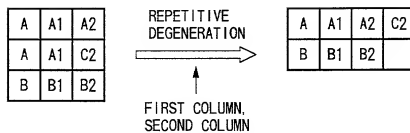


FIG.24

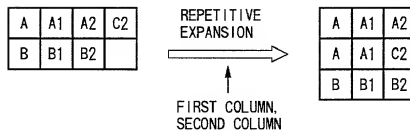




FIG.26

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DESIGNATION OF CONVERSION TARGET WORKSHEET

FILE CAPTURE

MAIN INPUT XLSheet0

SUB-INPUT XLSheet0

OUTPUT XLSheet8

Sheet1  
HISTORICAL LOG

☐ ADD INTO WORKSHEET

OK

CANCEL



FIG.28

56

DESIGNATION OF CONVERSION TARGET WORKSHEET

ROW-TO-COLUMN CONVERSION

MAIN INPUT

SUB-INPUT

OUTPUT

☐ ADD INTO WORKSHEET

OK

CANCEL

FIG.29

58

DESIGNATION OF CONVERTING CONDITION

ROW-TO-COLUMN CONVERSION

\$A:\$A
\$B:\$B
\$C:\$C
\$D:\$D
\$E:\$E TCP/IP SUM
\$F:\$F UNIX SYSTE
\$G:\$G UNIX NETWO
\$H:\$H BASIC OF P

SECTION
1ST DEV. DEP.
1ST DEV. DEP.
1ST DEV. DEP.

OK

CANCEL

FIG.30

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	A	B	C	D	E	F	G	H	I	J	K	L
1	1ST DEV DEP	GS SURE	3632201	I. AOKI TCP/IP SUMMARY		S.B.O		2/EACH PLACE				
2	1ST DEV DEP	GS SURE	3632201	I. AOKI UNIX CALL PROGRAMING		S.B.O		11/TECH				
3	1ST DEV DEP	GS SURE	3632201	I. AOKI UNIX NETWORK PROGRAMING		S.B.O		11/TECH				
4	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF PROGRAM DEVELOPMENT ON UNIX		S.B.O		12/NIMAZU				
5	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF MULTITHREAD PROGRAMING BY WIN32API		S.B.O		10/NIMAZU				
6	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF DATA STRUCTURE		S.B.O		11/TECH				
7	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF DATA STRUCTURE		S.B.O		3/NIMAZU				
8	1ST DEV DEP	GS SURE	3632201	I. AOKI REVEN TECHNIQUE		S.B.O		12/CORRESPONDENCE				
9	1ST DEV DEP	GS SURE	3632201	I. AOKI QUALITY CONTROL TECHNIQUE FOR LEADERS		S.B.O		12/NIMAZU				
10	1ST DEV DEP	GS SURE	3632201	I. AOKI PROJECT SIMULATION		S.B.O		2/CAMP				
11	1ST DEV DEP	GS SURE	3632201	I. AOKI PROJECT SIMULATION		S.B.O		3/CAMP				
12	1ST DEV DEP	GS SURE	3632201	I. AOKI DIRECTING AND EDUCATING SUBORDINATE		S.B.O						
13	1ST DEV DEP	GS SURE	3632201	I. AOKI PROBLEM FINDING AND SOLVING SKILL		S.B.O						
14	1ST DEV DEP	GS SURE	3632201	I. AOKI SUBJECT FINDING ABILITY IMPROVEMENT FOR IMPROVED PROFIT		S.B.O		1/TECH				
15	1ST DEV DEP	GS SURE	3632201	I. AOKI REVIEW TEST TECHNIQUE IN PROGRAM DEVELOPMENT		S.B.O		2/OSAKA				
16	1ST DEV DEP	GS SURE	3632201	I. AOKI PARTS REUSAGE TECHNIQUE IN PROGRAM DEVELOPMENT		S.B.O		11.2				
17	1ST DEV DEP	GS SURE	3632201	I. AOKI SOL GUIDE		S.B.O		FLM EVERY MONTH				
18	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF NETWORK		S.B.O		OSAKA				
19	1ST DEV DEP	GS SURE	3632201	I. AOKI DESIGN PRACTICE OF LAN		S.B.O		FLM EVERY MONTH				
20	1ST DEV DEP	GS SURE	3632201	I. AOKI DESIGN PRACTICE OF WAN		S.B.O		OSAKA				
21	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF UNIX NETWORK		S.B.O		FLM EVERY MONTH				
22	1ST DEV DEP	GS SURE	3632201	I. AOKI UNIX NETWORK PROGRAMING		S.B.O		OSAKA				
23	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF WINDOWS NT		S.B.O		FLM EVERY MONTH				
24	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF PROJECT MANAGEMENT		S.B.O		OSAKA				
25	1ST DEV DEP	GS SURE	3632201	I. AOKI BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS		S.B.O		FLM EVERY MONTH				
26	1ST DEV DEP	GS SURE	3632201	I. AOKI SYSTEM QUALITY MANAGEMENT WORKSHOP		S.B.O		11.1.3				
27	1ST DEV DEP	GS SURE	3632201	I. AOKI PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS		S.B.O		2/TOKYO				
28	1ST DEV DEP	GS SURE	3632201	I. AOKI ACTION TRAINING FOR LEADERS		S.B.O		FLM				
29	1ST DEV DEP	GS SURE	3632201	I. AOKI RISK MANAGEMENT WORKSHOP		S.B.O		11.2				
30	1ST DEV DEP	GS SURE	3632201	I. AOKI DEBATING TECHNIQUE		S.B.O		FLM 12.1				

FIG.31

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DESIGNATION OF CONVERSION TARGET WORKSHEET

VALUE-DESIGNATED ROW EXTRACTION

MAIN INPUT XLSheet1

SUB-INPUT XLSheet1

OUTPUT XLSheet2

script  
FillEmptyCells

☐ ADD INTO WORKSHEET

OK

CANCEL

FIG.32

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DESIGNATION OF CONVERTING CONDITION

VALUE-DESIGNATED ROW EXTRACTION

OK

CANCEL

\$C:\$C 363220	
\$D:\$D 1. AOK 1	
\$E:\$E TCP/IP SUM	
\$F:\$F S. B. 0	
\$G:\$G 2	
\$H:\$H EACH PLACE	
\$I:\$I	
\$J:\$J	



FIG.33

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	A	B	C	D	E	F	G	H	I	J	K
1	1ST DEV. DEP	GS/SURE	363220	I. AOKI	UNIX NETWORK PROGRAMMING	S.B.0		11 TECH			
2	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM 11.2		TOKYO			
3	1ST DEV. DEP	GS/SURE	363213	J. AOCHI	PEOPLE RELATION TRAINING LECTURE	FLM					
4	1ST DEV. DEP	GS/SURE	363213	J. AOCHI	NEGOTIATION SKILL-UP	FLM					
5	1ST DEV. DEP	GS/SURE	371704	S. ARAI	BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS	FLM 11.1.3		TOKYO			
6	1ST DEV. DEP	GS/SURE	392272	S. KIDA	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM 11.2		TOKYO			
7	1ST DEV. DEP	GS/SURE	392282	G. TSUJI	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM 11.2		TOKYO			
8	1ST DEV. DEP	GS/SURE	382076	R. INOUE	JAVA PROGRAMMING GUIDE	FLM					
9	1ST DEV. DEP	GS/SURE	382076	R. INOUE	JAVA APPLET GUIDE(VOD)	S.B.0					
10	1ST DEV. DEP	GS/SURE	402634	S. IWAKI	SOFTWARE DEVELOPMENT AND PATENT	S.B.0		1 TECH			
11	1ST DEV. DEP	GS/SURE	363246	H. UEDA	BASIS OF SOFTWARE DEVELOPMENT ON UNIX	S.B.0		12 NUMAZU			
12	1ST DEV. DEP	GS/SURE	363248	H. UEDA	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM 11.2		TOKYO			
13	1ST DEV. DEP	GS/SURE	371724	K. ENDO	PROBLEM FINDING AND SOLVING ABILITY	S.B.0					
14	1ST DEV. DEP	GS/SURE	414406	J. OMORI	C++GUIDE	H.R		12 EDUCATION CENTERED			
15	1ST DEV. DEP	GS/SURE	414406	J. OMORI	CORBA	S.B.0					
16	1ST DEV. DEP	GS/SURE	425929	J. OCHI	POINT OF SOFTWARE-RELATED PAT. APPLN.	S.B.0					
17	1ST DEV. DEP	GS/SURE	425929	J. OCHI	BASIS OF PAT. APPLN.	S.B.0					
18	1ST DEV. DEP	GS/SURE	402646	J. OHARA	VISUAL BASIC GUIDE	S.B.0		3 NUMAZU			
19	1ST DEV. DEP	GS/SURE	480159	J. KANAMOTO	BASIS OF SOFTWARE DEVELOPMENT ON UNIX	S.B.0		12 NUMAZU			
20	1ST DEV. DEP	GS/SURE	480159	J. KANAMOTO	BASIS OF UNIX NETWORK	FLM EVERY MONTH		TOKYO(OSAKA)			
21	1ST DEV. DEP	GS/SURE	480159	J. KANAMOTO	HOW TO MAKE SHELL SCRIPT (FOR BEGINNER)	S.B.0		2 CORRESPONDENCE			
22											
23											
24											
25											
26											
27											
28											
29											
30											
31	1ST DEV. DEP	GS/SURE	480159	J. KANAMOTO	HOW TO MAKE SHELL SCRIPT (FOR BEGINNER)	S.B.0		2 CORRESPONDENCE			

FIG.34

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DESIGNATION OF CONVERSION TARGET WORKSHEET

KEYED TOTALIZATION

MAIN INPUT

SUB-INPUT

OUTPUT

☐ ADD INTO WORKSHEET

OK  
CANCEL

FIG.35

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DESIGNATION OF CONVERTING CONDITION

KEYED TOTALIZATION

\$A:\$A	1ST DEV. DE
\$B:\$B	GS/SUF
\$C:\$C	363220
\$D:\$D	I. AOKI
\$E:\$E	UNIX NETWO
\$F:\$F	S. B. O
\$G:\$G	11
\$H:\$H	TECH

OK  
CANCEL

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	A	B	C	D	E	F	G	H	I
1	C#GUIDE	1							
2	CORBA	1							
3	JAVA APPLET GUIDE(VOD)	1							
4	JAVA PROGRAMMING GUIDE	1							
5	BASIS OF UNIX NETWORK	1							
6	UNIX NETWORK PROGRAMMING	1							
7	BASIS OF PROGRAMING DEVELOPMENT ON UNIX	2							
8	VISUAL BASIC GUIDE	1							
9	HOW TO MAKE SHELL SCRIPT(FOR BEGINNER)	1							
10	SOFTWARE DEVELOPMENT AND PATENT	1							
11	POINT OF SOFTWARE-RELATED PAT. APPL.N	1							
12	NEGOTIATION SKILL-IP	1							
13	BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS	1							
14	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	4							
15	PEOPLE RELATION TRAINING LECTURE	1							
16	BASIS OF PAT. APPL.N	1							
17	PROBLEM FINDING AND SOLVING SKILL	1							
18		18							
19		19							
20		20							
21		21							
22		22							
23		23							
24		24							
25		25							
26		26							
27		27							
28		28							
29		29							
30		30							

74

[illegible]

FIG.38

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DESIGNATION OF CONVERSION TARGET WORKSHEET

EXECUTION

MAIN INPUT

SUB-INPUT

OUTPUT

☐ ADD INTO WORKSHEET

OK

CANCEL

FIG. 39

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	A	B	C	D	E	F	G	H	I
1	FILE CAPTURING								
2	ROW-TO-COLUMN CONVERSION	XL Sheet0	XL Sheet0	XL Sheet0					
3	VALUE-DESIGNATED ROW EXTRACTION	XL Sheet1	XL Sheet2	XL Sheet1	4				
4	KEYED TOTALIZATION	XL Sheet2	XL Sheet3	10					
5				5					
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
	SCRIPT								



FIG. 41

[illegible]



FIG. 42

[illegible]

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[illegible]

